



January 15, 2019

East Chicago Sanitary District
5201 Indianapolis
East Chicago, IN 46312

Work Order No.: 19A0409

Re: Industrial #541 010819

Dear Nickie Geros:

Microbac Laboratories, Inc. - Chicagoland Division received 2 sample(s) on 1/9/2019 11:47:00AM for the analyses presented in the following report as Work Order 19A0409.

The enclosed results were obtained from and are applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report have been reviewed and meet the applicable project specific and certification specific requirements, unless otherwise noted. A qualifications page is included in this report and lists the programs under which Microbac maintains certification.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories.

We appreciate the opportunity to service your analytical needs. If you have any questions, please contact your project manager. For any feedback, please contact Ron Misiunas, Division Manager, at ron.misiunas@microbac.com.

Sincerely,
Microbac Laboratories, Inc.

A handwritten signature in black ink, appearing to read "Dave Bryant", with a long, sweeping horizontal line extending to the right.

Dave Bryant
Project Manager

**WORK ORDER SAMPLE SUMMARY****Date:** *Tuesday, January 15, 2019***Client:** East Chicago Sanitary District**Project:** Industrial #541 010819**Lab Order:** 19A0409

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
19A0409-01	#541		01/08/2019 09:42	1/9/2019 11:47:00AM
19A0409-02	#541		01/08/2019 09:42	1/9/2019 11:47:00AM

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Analytical Results

Date: Tuesday, January 15, 2019

Client: East Chicago Sanitary District
Client Project: Industrial #541 010819
Client Sample ID: #541
Sample Description:
Matrix: Aqueous

Work Order/ID: 19A0409-01
Sampled: 01/08/2019 9:42
Received: 01/09/2019 11:47

Analyses	Certs	AT	Result	Limit	MDL	RL	Qual	Units	DF	Analyzed
Method: EPA 200.7 Rev 4.4										
Analyst: BTM										
Prep Date/Time: 01/10/2019 09:21										
Total Recoverable Metals by ICP										
Arsenic	dijl	A	0.0083	0.5	0.0053	0.010	J	mg/L	1	01/10/2019 15:16
Chromium	dijl	A	ND	0.282	0.0011	0.0030		mg/L	1	01/10/2019 15:16
Copper	dijl	A	0.0074	0.17	0.0013	0.010	J	mg/L	1	01/10/2019 15:16
Lead	dijl	A	ND	0.224	0.0033	0.0075		mg/L	1	01/10/2019 15:16
Nickel	dijl	A	0.0014	0.39	0.0010	0.010	J	mg/L	1	01/10/2019 15:16
Zinc	dijl	A	0.058	5.5	0.0073	0.020		mg/L	1	01/10/2019 15:16
Method: SM 4500-Cl B-1997										
Analyst: EF										
Prep Date/Time: 01/11/2019 16:12										
Chloride										
Chloride	di	A	68	0	1.0	1.0		mg/L	1	01/11/2019 16:12
Method: EPA 410.4 Rev 2.0										
Analyst: EF										
Prep Date/Time: 01/15/2019 07:25										
Chemical Oxygen Demand										
Chemical Oxygen Demand	di	A	57	250	9.3	10		mg/L	1	01/15/2019 10:45
Method: SM 4500-F C-1997 MOD										
Analyst: EF										
Prep Date/Time: 01/15/2019 09:35										
Fluoride										
Fluoride	dij	A	0.68	2.9	0.010	0.10		mg/L	1	01/15/2019 9:35
Method: EPA 365.1 Rev 2.0										
Analyst: ABG										
Prep Date/Time: 01/12/2019 09:04										
Total Phosphorus as P										
Phosphorus, Total (As P)	dij	A	0.229	5.5	0.0450	0.200		mg/L	1	01/14/2019 15:23
Method: SW-846 9038										
Analyst: ABG										
Prep Date/Time: 01/15/2019 11:16										
Sulfate, Turbidimetric										
Sulfate		A	38	0		10		mg/L	1	01/15/2019 12:01
Method: SM 2540 C-1997										
Analyst: DAT										
Prep Date/Time: 01/11/2019 11:55										
Total Dissolved Solids										
Total Dissolved Solids (Residue, Filterable)	dij	A	420	0	20	20		mg/L	1	01/14/2019 15:22
Method: SM 2540 D-1997										
Analyst: KMT										
Prep Date/Time: 01/11/2019 11:39										
Total Suspended Solids										
Total Suspended Solids	dij	A	18	100	1.0	1.0		mg/L	1	01/11/2019 13:14

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Analytical Results

Date: Tuesday, January 15, 2019

Client: East Chicago Sanitary District

Client Project: Industrial #541 010819

Client Sample ID: #541

Sample Description:

Matrix: Aqueous

Work Order/ID: 19A0409-02

Sampled: 01/08/2019 9:42

Received: 01/09/2019 11:47

Analyses	Certs	AT	Result	Limit	MDL	RL	Qual	Units	DF	Analyzed
Method: EPA 1664B						Analyst: KMT				
Oil & Grease (HEM) by SPE										
Prep Date/Time: 01/10/2019 07:50										
Oil & Grease (HEM)	dij	A	2.8	50	1.4	5.0	J	mg/L	1	01/10/2019 14:09

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FLAGS, FOOTNOTES AND ABBREVIATIONS (as needed)

B = Detected in the associated method Blank at a concentration above the routine RL
 b- = Detected in the associated method Blank at a concentration greater than 2.2 times the MDL
 b* = Detected in the associated method Blank at a concentration greater than half the RL
 CFU = Colony forming units
 D = Dilution performed on sample
 DF = Dilution Factor
 g = Gram
 E = Estimated Value
 H = Analyte was prepared and/or analyzed outside of the analytical method holding time
 I = Matrix Interference
 J = Analyte concentration detected between RL and MDL (Metals / Organics)
 LOD = Limit of Detection
 LOQ = Limit of Quantitation
 m3 = Meters cubed
 MDL = Method Detection Limit
 mg/Kg = Milligrams per Kilogram (ppm)
 mg/L = Milligrams per Liter (ppm)
 NA = Not Analyzed
 ND = Not Detected at the Reporting Limit (or the Method Detection Limit, if used)
 NR = Not Recovered
 R = RPD outside accepted recovery limits
 RL = Reporting Limit
 S = Spike recovery outside recovery limits
 Surr = Surrogate
 U = Undetected
 > = Greater than
 < = Less than
 % = Percent
 * = Result exceeds project specific limits

ANALYTE TYPES: (AT)

A,B = Target Analyte
 I = Internal Standard
 M = Summation Analyte
 S = Surrogate
 T = Tentatively Identified Compound (TIC, concentration estimated)

QC SAMPLE IDENTIFICATIONS

BLK = Method Blank	ICSA = Interference Check Standard "A"
DUP = Method Duplicate	ICSAB = Interference Check Standard "AB"
BS = Method Blank Spike	BSD = Method Blank Spike Duplicate
MS = Matrix Spike	MSD = Matrix Spike Duplicate
ICB = Initial Calibration Blank	ICV = Initial Calibration Verification
CCB = Continuing Calibration Blank	CCV = Continuing Calibration Verification
CRL = Client Required Reporting Limit	OPR = Ongoing Precision and Recovery Standard
PDS = Post Digestion Spike	SD = Serial Dilution
QCS = Quality Control Standard	

CERTIFICATIONS (Certs)

Below is a list of certifications maintained by the Microbac Merrillville Laboratory. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. Complete lists of individual analytes pursuant to each certification below are available upon request.

- ^d Illinois EPA drinking water, wastewater and solid waste analysis (#200064)
- ⁱ Kansas Dept Health & Env. NELAP (#E-10397)
- ^j Kentucky Wastewater Laboratory Certification Program (#90147)
- ^l North Carolina DENR NPDES effluent, surface water (#597)

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Cooler Receipt Log

Cooler ID: Default Cooler



Cooler Inspection Checklist

Ice Present or not required?	Yes
Shipping containers sealed or not required?	Yes
Custody seals intact or not required?	Yes
Chain of Custody (COC) Present?	Yes
COC includes customer information?	Yes
Relinquished and received signature on COC?	Yes
Sample collector identified on COC?	Yes
Sample type identified on COC?	Yes
Correct type of Containers Received	Yes
Correct number of containers listed on COC?	Yes
Containers Intact?	Yes
COC includes requested analyses?	Yes
Enough sample volume for indicated tests received?	Yes
Sample labels match COC (Name, Date & Time?)	Yes
Samples arrived within hold time?	Yes
Correct preservatives on COC or not required?	Yes
Chemical preservations checked or not required?	Yes
Preservation checks meet method requirements?	Yes
VOA vials have zero headspace, or not recd.?	Yes

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**5713 West 85th Street
Indianapolis, IN 46278
Tel: 317-872-1375
Fax: 317-872-1379**

Chain of Custody Record

Number

Instructions on back

			<i>Instructions on back</i>	
Project		Industrial Monitoring	Turnaround Time	Report Type
Name	East Chicago Sanitary District 5201 Indianapolis Blvd.	#541		
Zip	East Chicago, IN 46312	PO #	<input type="checkbox"/> RUSH* (notify lab)	
	Nickie Geros / Henry Padilla	Compliance Monitoring? <input type="checkbox"/> Yes <input type="checkbox"/> No		
#	219-391-8466	(1) Agency/Program	_____ (needed by)	

(PRINT) _____ ECSD Staff _____
 via ☐ Mail ☐ Telephone ☐ Fax (fax #) _____
 Sampler Signature H. J. [Signature] Sampler Phone # _____ 219-391-8466 x240
☒ e-mail (address) ngeros@eastchicago.com / hwoick@eastchicago.com
 * Matrix Types: Soil / Solid (S) Sludge (Sl) Water (W) Other (O) _____

* Matrix Types: Soil/Solid (S), Sludge, Oil, Waste Water (WW), Other (specify)
Preservative Types: (1) HNO₃, (2) H₂SO₄, (3) HCl, (4) NaOH, (5) Zinc Acetate, (6) Methanol, (7) Sodium Bisulfate, (8) Sodium Thiosulfate, (9) Hexamethylenetetramine, (10) Formalin, (11) Boric Acid, (12) Potassium Dichromate, (13) Potassium Permanganate, (14) Silver Nitrate, (15) Tannic Acid, (16) Urea, (17) Zinc Chloride, (18) Zinc Sulfate, (19) Zinc Oxide, (20) Zinc Phosphate, (21) Zinc Carbonate, (22) Zinc Hydroxide, (23) Zinc Silicate, (24) Zinc Selenite, (25) Zinc Tellurite, (26) Zinc Vanadate, (27) Zinc Molybdate, (28) Zinc Arsenate, (29) Zinc Fluoroborate, (30) Zinc Borate, (31) Zinc Chromate, (32) Zinc Nickel Sulfate, (33) Zinc Cobalt Sulfate, (34) Zinc Copper Sulfate, (35) Zinc Magnesium Sulfate, (36) Zinc Calcium Sulfate, (37) Zinc Strontium Sulfate, (38) Zinc Barium Sulfate, (39) Zinc Lead Sulfate, (40) Zinc Bismuth Sulfate, (41) Zinc Antimony Sulfate, (42) Zinc Arsenic Sulfate, (43) Zinc Vanadium Sulfate, (44) Zinc Manganese Sulfate, (45) Zinc Iron Sulfate, (46) Zinc Nickel 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[illegible]

Comments	Relinquished By (signature)		Date / Time		Received By (signature)		Date / Time	
w OT Sample temperature upon receipt in degrees C = $\frac{3-4}{0-4}$ 3.0	C. Langner		1-9-19 10 ¹⁵ PM		[Signature]		1-9-19 1015	
Sample temperature upon receipt in degrees C =								